CLAIMS:

What is claimed is:

1. A system for recovering from a filesystem operation failure, comprising:

a processor;

a filesystem coupled to said processor; and

a set of instructions configured to run on said processor, said set of instructions operable to:

change a first set of data for a first thread associated with a first file of said filesystem;

store said change for said first set of data;

responsive to an operation error, retrieve said stored change for said first set of data; and

rollback said change to said first set of data to recover said first set of data for said first thread.

2. The system of Claim 1, wherein said set of instructions are further operable to:

change a second set of data for a second thread, said second thread associated with a second file of said filesystem;

store said change for said second set of data;

responsive to said operation error, retrieve said stored change for said second set of data; and

rollback said change to said second set of data to recover said second set of data for said second thread.

3. The system of Claim 2, wherein the retrieve and rollback operations are responsive to a notification from said first thread.

4. The system of Claim 1, wherein said operation error comprises a filesystem operation error.

5. The system of Claim 1, wherein said operation error comprises a thread operation error.

6. The system of Claim 1, wherein said first file comprises an inode page.

7. The system of Claim 2, wherein said second file comprises a directory page.

8. A method of recovering from a filesystem operation failure, comprising the steps of:

changing a first set of data for a first thread associated with a first file of said filesystem;

storing said change for said first set of data;

responsive to an operation error, retrieving said stored change for said first set of data; and

rolling back said change to said first set of data to recover said first set of data for said first thread.

9. The method of Claim 8, further comprising the steps of:

changing a second set of data for a second thread, said second thread associated with a second file of said filesystem;

storing said change for said second set of data;

responsive to said operation error, retrieving said stored change for said second set of data; and

rolling back said change to said second set of data to recover said second set of data for said second thread.

10. The method of Claim 9, wherein the retrieving and rolling back steps are responsive to a notification from said first thread.

11. The method of Claim 8, wherein said operation error comprises a filesystem operation error.

12. The method of Claim 8, wherein said operation error comprises a thread operation error.

13. The method of Claim 9, wherein said operation error comprises a multi-thread operation error.

14. The method of Claim 8, wherein said first file comprises an inode page.

15. The method of Claim 9, wherein said second file comprises a directory page.

16. A computer program product on a computer readable medium, said computer program product comprising:

first instructions for changing a first set of data for a first thread associated with a first file of a filesystem;

second instructions for storing said change for said first set of data;

third instructions for receiving information about an operation error;

responsive to said third instructions, fourth instructions for retrieving said stored change for said first set of data; and

fifth instructions for rolling back said change to said first set of data to recover said first set of data for said first thread.

17. The computer program product of Claim 16, further comprising:

sixth instructions for changing a second set of data for a second thread, said second thread associated with a second file of said filesystem;

seventh instructions for storing said change for said second set of data;

responsive to said third instructions, eighth instructions for retrieving said stored change for said second set of data; and

ninth instructions for rolling back said change to said second set of data to recover said second set of data for said second thread.

18. The computer program product of Claim 16, wherein the eighth and ninth instructions are responsive to a notification from said first thread.

19. The computer program product of Claim 16, wherein said operation error comprises a filesystem operation error.

20. The computer program product of Claim 16, wherein said operation error comprises a thread operation error.